



Installation & User Manual Radio Remote RC-11E



SLEIPNER MOTOR AS

P.O. Box 519
N-1612 Fredrikstad
Norway
Tel: +47 69 30 00 60
Fax: +47 69 30 00 70



www.side-power.com
sidepower@sleipner.no

Made in Norway

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Model range

The radio remote control can control a single bow thruster or a bow and stern thruster combined. The receiver can receive the signals of up to four transmitters.

Remote control kit (RC-11E) consists of:

- Receiver: Part# RCR-10E
- Transmitter (incl. battery): Part# RCS-11E
- Holding bracket for transmitter unit: Part# 8927A

Additional transmitters can be ordered separately: Part# RCS-11E

• Part# RC-11E

The transmitter and the receiver have the same factory preset code so no programming is necessary. The battery is already inserted in the transmitter.

• Additional transmitter(s) Part#RCS-10E

When additional transmitters are to be used, the receiver must be programmed again for all transmitters (please see programming section on page 7).



We **Sleipner Motor AS** declare that this device complies with health and safety requirements according to the Directives
EN301 489-3 V1.4.1:2002
EN301 489-1 V1.4.1:2008
IEC 60533:1999
EN300 220-1 V2.3.1:2010
EN300 220-2 V2.3.1:2010



Technical specifications



	Transmitter	Receiver
Model	RCS-11E	RCR-10E
Power feed	1 x 3V battery (type: CR2032)	From thruster
Frequency (MHz)	433,2	433,2
Address range	65.000	65.000
Operation temp.	-10°C / +55°C	-15°C / +55°C
Technology	S.M.T.	S.M.T.
HxWxD (mm)	95x48x25	89x68x33
Weight (g)	60	135
Voltage:		8-30V
Load, max		4A
Load, resting		35mA

Operating range: 15m under normal operating conditions

Important precautions

- **You must always install at least one original Side-Power panel.**
- With the boat on land, only run the thruster for a fraction of a second, as without resistance it will accelerate very fast to a damaging rpm.
- This manual is intended to support educated / experienced staff and is therefore not sufficient in all details for the correct installation.
- When installed in boats approved or classified according to international or special national rules, the installer is responsible for following the demands in accordance with these regulations / classification rules. The instructions in this guide can not be guaranteed to comply with all different regulations / classification rules.
- The transmitter and the receiver have the same factory preset code so no programming is necessary. When additional transmitters are to be used, the receiver must be programmed again for all transmitters (please see programming section on page 7).
- If a Exturn automatic main switch is fitted, the "OFF" button on your transmitter will shut off the main switch providing no other control panels are "ON".



Receiver installation

Prior to installation, it is important that the responsible installer reads this guide to ensure necessary acquaintance with this product.

Warning!

- Remote receiver power supply negative lead must be connected to the thrusters's negative lead.

Caution!

- Install the receiver minimum 1 meter (3ft) from high power cables and NMEA cables or other sources of electrical interference, i.e. navigation instruments, radio communication devices, electro motors and generators.
- Install the receiver outside of shielded areas for radio signals, i.e. boxes made of steel or other material with shielding properties.
- Install the receiver in a dry environment, with cables pointing downwards. (The receiver assembly is not waterproof.)
- When additional transmitters are to be used, the receiver must be programmed again for all transmitters (please see programming section on page 7).
- The receiver must have a separate power supply fitted with a 5 Amp fuse in the positive lead that has either a separate power switch or is shut of by the thrusters system main power switch. The receiver can not be powered by the thrusters's control looms even if you find positive and negative lead there.
- Mount the receiver using the two screw holes (please see picture on page 6).
If the receiver is mounted against a wall, use spacers between the receiver and the wall to avoid moisture in the receiver.

Optimised installation (Fig. 1 - 3)

- The receiver antenna must be placed in a vertical position minimum 1 meter (3ft) above sea level.
- The receiver has antenna with SMA connector. If there is a problem with signal transferring, try to move the unit to a more optimised position or buy antenna with cable (#xxxx).
 - Above sea level
 - Away from sources of electrical interference.

Note! Faulty installation will render all warranty given by Sleipner Motor AS void.



FIG. 1

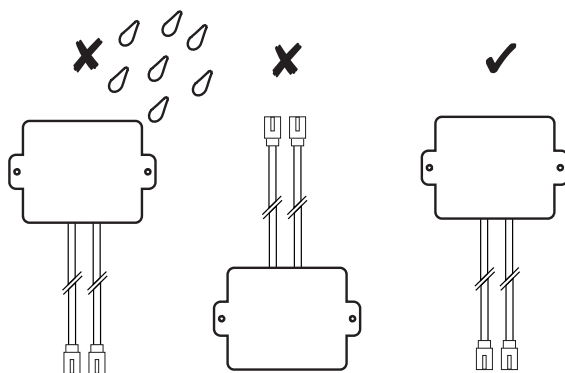


FIG. 2

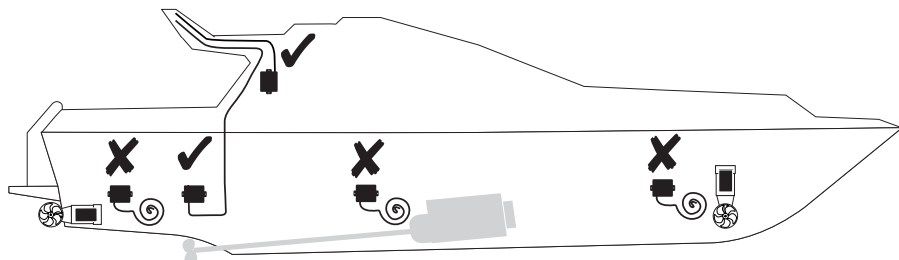
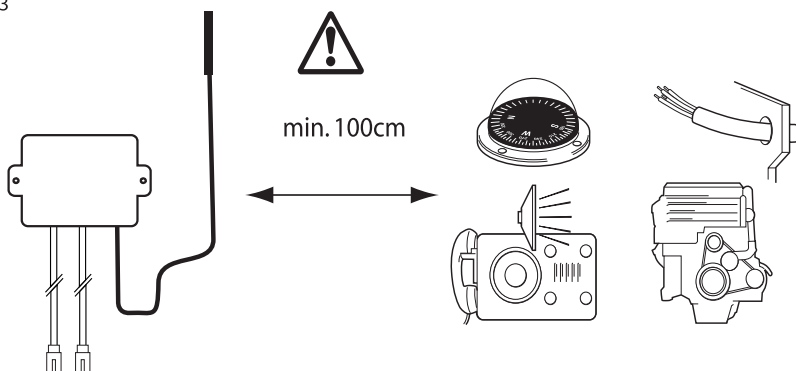
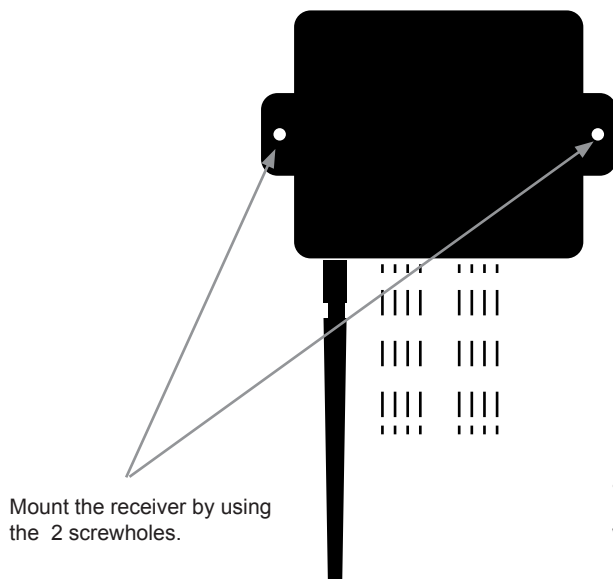


FIG. 3



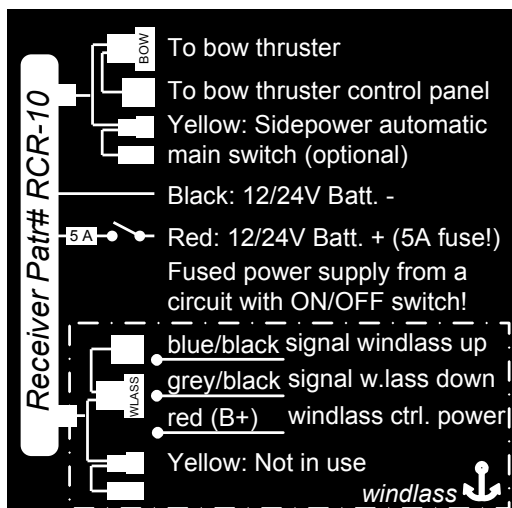
Receiver installation



Mount the receiver by using the 2 screwholes.

If the receiver is mounted against a wall, use spacers between the receiver and the wall to avoid moisture in the receiver.

Visual wiring diagram



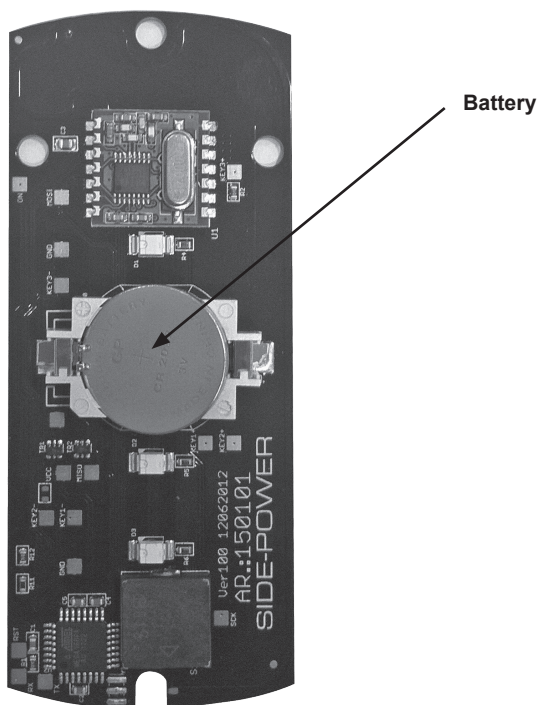
Programming additional receivers



The original transmitter and receiver have the same factory preset code so that no programming is necessary. When additional transmitters are to be used, the receiver must be programmed again for all transmitters.

1. Deactivate the receiver and all transmitters (press "OFF" on all transmitters).
Turn off the main power switch for the thruster(s).
2. Turn on the power to the receiver.
3. Push the Pair Button on the receiver with a plastic stick (as shown above). The LED below the button will start to blink.
4. The receiver and transmitter are programmed by pressing both "ON" buttons on the transmitter. Within 5 seconds the LED will change from blinking to continuous light when the programming signal is received. The transmitter is then ready to use.
5. Additional transmitters must be programmed according to step 3-4 when the receiver is in "Program mode". You can pair up to 4 transmitters.
6. To clear all transmitters, hold Pair Button until LED blinks slow, continue to hold button pressed until LED blinks quick indicating that a reset process is started. When LED is turned off, the reset process is completed, and the Pair button can be released. The LED will come on when the receiver has completed the reset process and is ready to be paired (Step 3-4)

Replacing the battery



WARNING:

Before working on the transmitter, deactivate the transmitter and the receiver (push "OFF" on the transmitter(s)) and turn off the power to the receiver as well as the thruster mainswitch.

1. Open the transmitter.
2. Take out the battery.
3. Insert the new battery (Type CR2032, 3V - Brand name recommended). Be sure to insert the battery with the positive pole up.
4. Close the transmitter. Put the cover back in place, ensure that the rubber seal between remote upper and lower part is located correctly. Place the 3 screws (remember sealing washer) in their recessed holes and tighten.



Important user precautions

- Ensure that you know the location of the main battery switch that disconnects the thruster from all power sources (batteries) so that the thruster can be turned off in case of a malfunction.
- If a Side-Power automatic main switch is fitted, the "OFF" button on your transmitter will shut off the main switch providing no other control panels are "ON".
- **How to activate the system:**
Turn on the main power source for the thruster system. Turn on the power to the receiver. The thruster system is then activated by pushing the two "ON" buttons on the transmitter (see page 10). To turn off the radio remote control press the "OFF" button on the transmitter for 2 sec. The LED below the Pair Button on the receiver will blink when a command signal is received.
- **Alarms:**
If transmitter/receiver is out of range, the transmitter will give a alarm sound.
If the voltage of the battery supplying the thruster gets below 8V, the alarm will sound.
If other alarm situations are detected by the receiver, the transmitter will give an alarm sound.
- The transmitter will automatically turn off after approx. 4 minutes of inactivity for safety reasons

When using a single transmitter

The system turns off automatically approx. 4 minutes after the last usage.

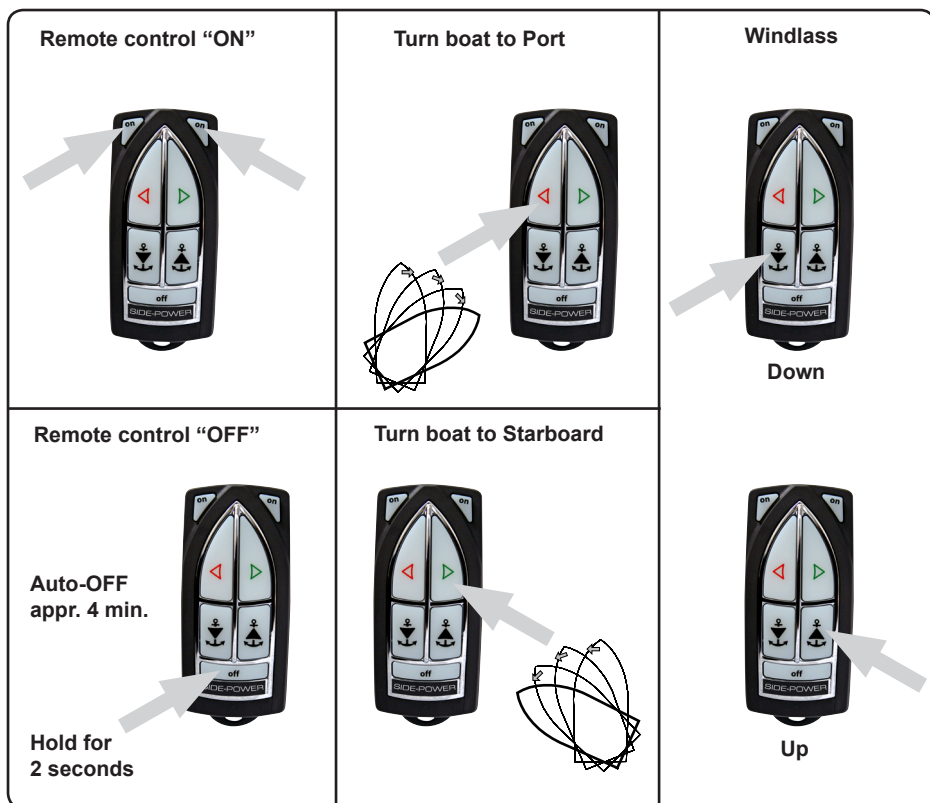
When using more than one transmitter or additional 'radio-link' control panels

The system turns off automatically approx. 4 minutes after the last usage of the control unit that initially activated the system even if other control units have been operated in the meantime.

The system is off even if these other control units still show the blinking LED on the transmitter. To use these transmitters, the system must be activated again by pushing the two "ON" buttons.

- Remember to turn off the radio remote control by pushing the "OFF" button on the transmitter for 2 seconds and to turn off the power switch for the receiver when you have finished your maneuvering.
- The maximum continues usage time of the electrical thruster is approx. 3 minutes. The electro motor has a built in thermal cut-off switch that will shut it off when overheating and re-engage it when it has cooled down some. This should be considered when planning your manoeuvring.
- Never use a thruster close to somebody in the water, as the thruster will draw objects close by into the tunnel and contact with the rotating propellers will cause serious injuries.
- Never run a thruster for more than one second when the boat is not in the water, as this can damage the electromotor seriously.
- If the thruster stops giving thrust while the electromotor is running, chances are that there is a problem in the drive-system. You must then immediately stop trying to run it, and turn it off, as running the electromotor for more than a few seconds without resistance from the propeller, can cause serious damage to the electromotor.
- When leaving the boat always turn off the main power switch for the thruster and turn off the power to the receiver.
- We advice to always keep the main engine(s) running while using a thruster. This will keep the batteries in a good charge condition. This will also give better performance to the thruster, as a higher voltage at the thruster results in a higher torque (power) in the electromotor.
- Make sure that only one control is used at the same time, if two panels are operated in opposite directions at the same time the thruster will not run at all. If they are operated in the same direction the thruster will run in this direction.





How to use a bowthruster

1. Turn the main power switch for the bow thruster on. Turn on the power to the receiver.
2. Turn on the transmitter by pushing the transmitter's two "ON" buttons. The remote system is now activated and then turns off automatically appr. 4 min. after the last usage (see page 9).
3. Please take some time to exercise thruster usage in open water to avoid damages to your boat.
4. Turn the bow in the desired direction. By pushing the red button for port movement or the green button for starboard movement.

How to use the windlass

Please consult your windlass manual for use and precautions.

NB: Max. load on the windlass signal output is 4A!

If the windlass requires more than 4A, use extra control relay (ref. Illustration next page)

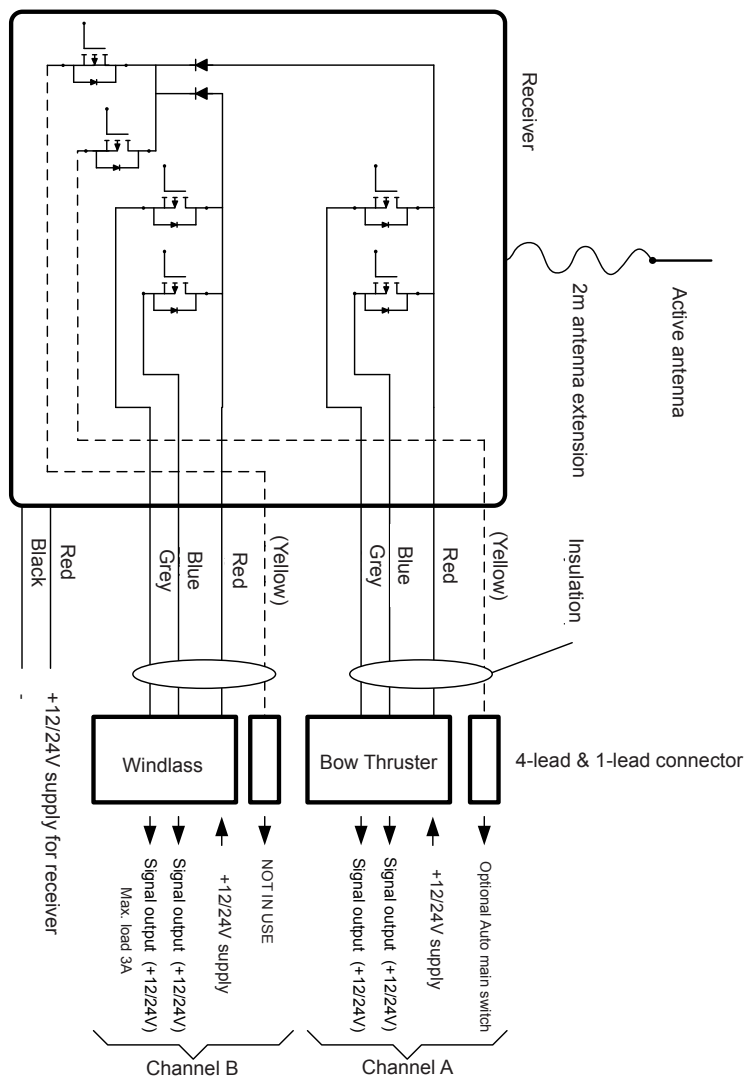
Remote Control Deactivation

Push the transmitter's "OFF" button for two seconds (the remote control deactivates automatically after approx. 4 minutes after the last usage). Turn off the power switch for the receiver.

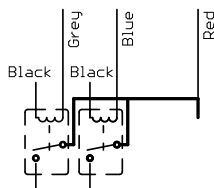
- If in doubt, try in open water first!



Electric schematics



External relays for windlass requiring signal output over 4A



Coil voltage depend of voltage supply.
Output current of relay depend of load form winch last.
At least 3 time normal current.

SIDE-POWER SERVICE CENTRES

Argentina

Trimer SA
Buenos Aires
Tel: +54 11 4580 0444
Fax: +54 11 4580 0440
www.trimer.com.ar
trimer@trimer.com.ar

Australia

AMI Sales
Freemantle, WA
Tel: +61 89 331 0000
Fax: +61 89 314 2929
ami@amisales.com.au

Austria

G. Ascherl GmbH
Hard, Brezgen
Tel: +43 5574 899000
Fax: +43 5574 89900-10
www.ascherl.at
office@ascherl.at

Benelux

ASA Boot Electro
Watergang
Tel: +31 20 436 9100
Fax: +31 20 436 9109
www.asabootelectro.nl
info@asabootelectro.nl

Brazil

Electra Service Ltda.
Guaruja
Tel: +55 13 3354 3599
Fax: +55 13 3354 3471
www.electraservice.com.br
albertoni@electraservice.com.br

Bulgaria

Yachting BG
Burgas
tel: +359 56 919090
fax: +359 56 919091
www.yachting.bg
info@yachting.bg

China/Hong Kong

Storm Force Marine Ltd.
Wanchai, Hong Kong
Tel: +852 2866 0114
Fax: +852 2866 9260
www.stormformcmarine.com
sales@stormformcmarine.com

Croatia

Yacht Supplier
Icici
Tel: +385 51 704 500
Fax: +385 51 704 600
acyachting@gmail.com

Cyprus

Ocean Marine Equipment Ltd
Limassol
Tel: +357 253 69731
Fax: +357 253 52976
oceannm@spidernet.com.cy

Denmark

Gertsen & Olufsen AS
Hørsholm
Tel: +45 4576 3600
Fax: +45 4576 1772
www.gertsen-olufsen.dk
info@gertsen-olufsen.dk

Estonia/Latvia/Lithuania

Miltec Systems OÜ
Tallin
Tel: +372 5013997
Fax: +372 6442211
www.miltec.ee
tony@miltec.ee

Finland

Nautikulma OY
Turku
Tel: +358 2 2503 444
Fax: +358 2 2518 470
www.nautikulma.fi
nautikulma@nautikulma.fi

France

Kent Marine Equipment
Nantes
Tel: +33 240 921 584
Fax: +33 240 921 316
www.kent-marine.com
contact@kent-marine.com

Germany

JabSCO GmbH
Norderstedt
Tel: +49 40 535 373-0
Fax: +49 40 535 373-11
www.xylemflowcontrol.com
vertrieb@jabasco.com

Greece

Amaltheia Marine
Athens
Tel: +30 210 2588 985
Fax: +30 210 2588 986
www.amaltheiamarine.com
amalmar@otenet.gr

Iceland

Maras EHF
Reykjavik
Tel: +354 555 6444
Fax: +354 565 7230
www.maras.is
gummi@maras.is

India

Indo Marine Engineering Co. Pvt. Ltd
Pune, Maharashtra
Tel: +91 20 2712 3003
Fax: +91 20 2712 2295
siddharth@indogroup-asia.com

Israel

Atlantis Marine Ltd.
Tel Aviv
Tel: +972 3 522 7978
Fax: +972 3 523 5150
www.atlantis-marine.com
atlantis@inter.net.il

Italy

Saim S.P.A.
Assago-Milan
Tel: +39 02 488 531
Fax: +39 02 488 254 5
www.saim-group.com

Japan

Turtle Marine Inc.
Nagasaki
Tel: +81 95 840 7977
Fax: +81 95 840 7978
www.turtle-marine.com
info@turtle-marine.com

Malta

S & D Yachts Ltd.
Cali
Tel: +356 21 339 908
Fax: +356 21 332 259
www.sdyachts.com
info@sdyachts.com

New Zealand

Advance Trident Ltd.
Auckland
Tel: +64 9 845 5347
Fax: +64 9 415 5348
www.advancetrident.com
service@advancetrident.com

Norway

Sleipner Motor AS
Fredrikstad
Tel: +47 69 30 00 60
Fax: +47 69 30 00 70
www.sleipner.no
info@sleipner.no

Poland

Taurus Sea Power SP. Z.O.O
Gdansk
Tel: +48 58 344 30 50
Fax: +48 58 341 67 62
www.taurus.gda.pl

Portugal

Krautli Portugal Lda.
Lisboa
Tel: +351 21 953 56 00
Fax: +351 21 953 56 01
www.krautli.com
contact@krautli.pt

Russia

Standarte
Starbeyevo
Tel: +7 495 575 67 23
Fax: +7 4 95 575 39 77
www.standarte.ru
info@standarte.ru

South Africa

PowerSol
Cape Town
Tel: +27 21 552 1187
Fax: +27 21 555 2503
bruce@powersol.co.za

South Korea

D-I Industrial Co Ltd
Jinju-si, Kyungnam-do
Tel: +82 55 755 9928
Fax: +82 55 755 9188
www.d-i.co.kr
dici@d-i.co.kr

Spain

Imnasa Marine Products
Girona
Tel: +34 902 300 214
Fax: +34 902 300 215
www.imnasa.com
imnasa@imnasa.com

Sweden

Sleipner AB
Strömstad
Tel: +46 526 629 50
Fax: +46 526 152 95
www.sleipnerab.se
info@sleipnerab.se

Switzerland

Senero AG
Winterthur
Tel: +41 52 203 66 55
Fax: +41 52 203 66 56
www.senero.ch
info@senero.ch

Singapore/Malaysia/ Indonesia/ Vietnam/Philippines

Island Marine Services Pte Ltd
Singapore
Tel: +65 6795 2250
Fax: +65 6795 2230
www.island-marine.com
karl@island-marine.com

Taiwan

Mercury Marine Supply
Kaohsiung
Tel: +886 7 3317 293
Fax: +886 7 3314 232

Turkey

Denpar Ltd.
Istanbul
Tel: +90 212 346 1332
Fax: +90 212 346 1329
seda@denpar.com

UK/Ireland

Sleipner Motor Ltd.
South Brent
Tel: +44 1364 649 400
Fax: +44 1364 649 399
andy@sleipner.co.uk

Ukraine

Yachtglanz Marine Equipment
Tel: +49 231 474 09 599
Fax: +49 231 474 11 594
www.yachtglanz.com
info@yachtglanz.com

United Arab Emirates

Teignbridge Propellers & Marine
Equipment Co. Ltd.
Dubai
Tel: +971 4 324 0084
Fax: +971 4 324 0153
teignpro@emirates.net.ae

USA/Canada/Caribbean

Imtra Corporation
New Bedford, MA
Tel: +1 508 995 7000
Fax: +1 508 998 5359
www.imtra.com
side-power@imtra.com



Sleipner Motor AS • P.O. Box 591, N1612 Fredrikstad • Norway
Tel: +47 69 30 00 60 • Fax: +47 69 30 00 70
sidepower@sleipner.no • www.side-power.com